

Geometry 11.6 Assignment: Geometric Probability (pp 699-701)

Omit 2, 3, 8, 16

1. What is your name?

Find the probability that a point K, selected randomly on \overline{AF} , is on the given segment.



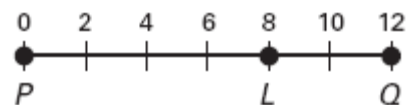
2. \overline{AB}

3. \overline{CD}

4. \overline{BD}

5. \overline{CF}

A point is chosen on \overline{PQ} . Determine the probability described.



6. The point is closer to point L than to point P.

7. The point is closer to point L than to point Q.

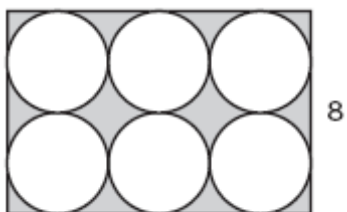


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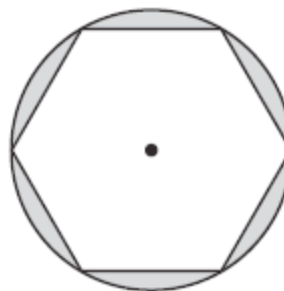
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Find the probability that a randomly chosen point in the figure lies in the shaded region.

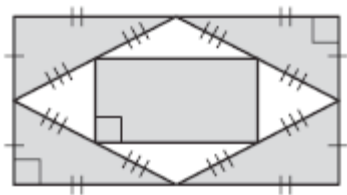
8.



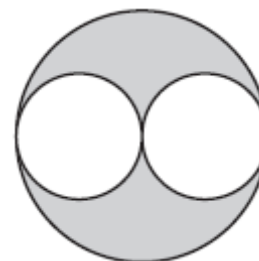
9.



10.



11.

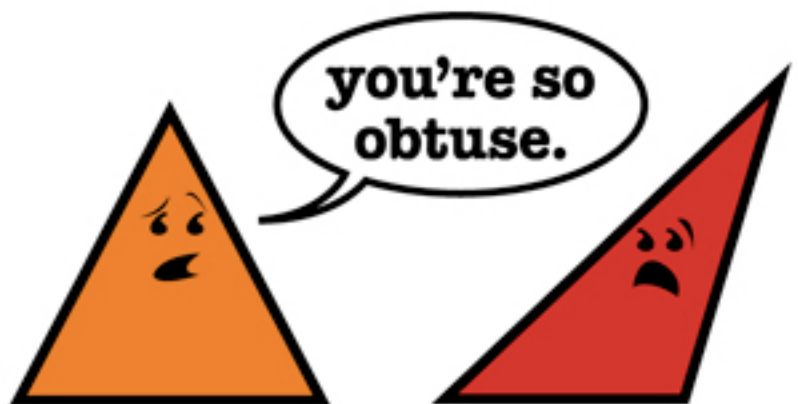


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12. You have planned to meet your friend at the mall at 4 P.M. The city bus runs every 10 minutes and the trip to the store is 6 minutes. You arrive at the bus stop at 3:50 P.M. What is the probability that you will arrive at the mall by 4 P.M.?

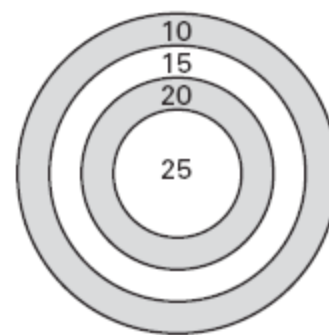
13. You stop at the same convenience store each day to get a refill of your travel mug. The coffee decanter holds 64 ounces and your mug holds 20 ounces. What is the probability that on any given day you will have to tell the store manager that the coffee is out and they need to make more for you to fill your entire mug?



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Determine the probability for each outcome on the archery target shown. The center ring has a radius of 2 units. Each successive ring has a radius 1 unit greater than the previous one. Assume the arrow is equally likely to hit any point on the target.



14. 25 points

15. 20 points

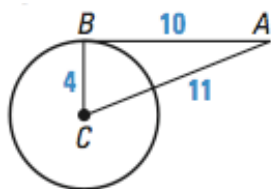
16. 15 points

17. 10 points

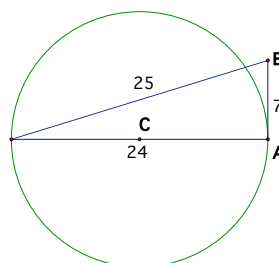
Review

Tell whether \overline{AB} is tangent to $\odot C$. Explain your reasoning. (Chapter 10 Section 1)

18.



19.



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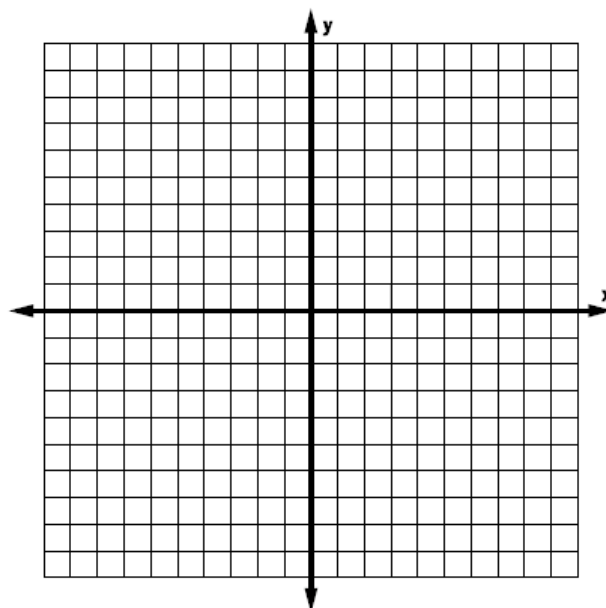
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Graph the line with the circle

$(x - 2)^2 + (y + 4)^2 = 16$. Is the line a tangent or a secant?

20. $y = 0$

21. $y = x - 1$



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"How do you want it—the crystal mumbo-jumbo or statistical probability?"